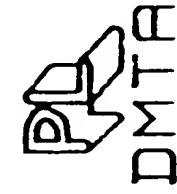
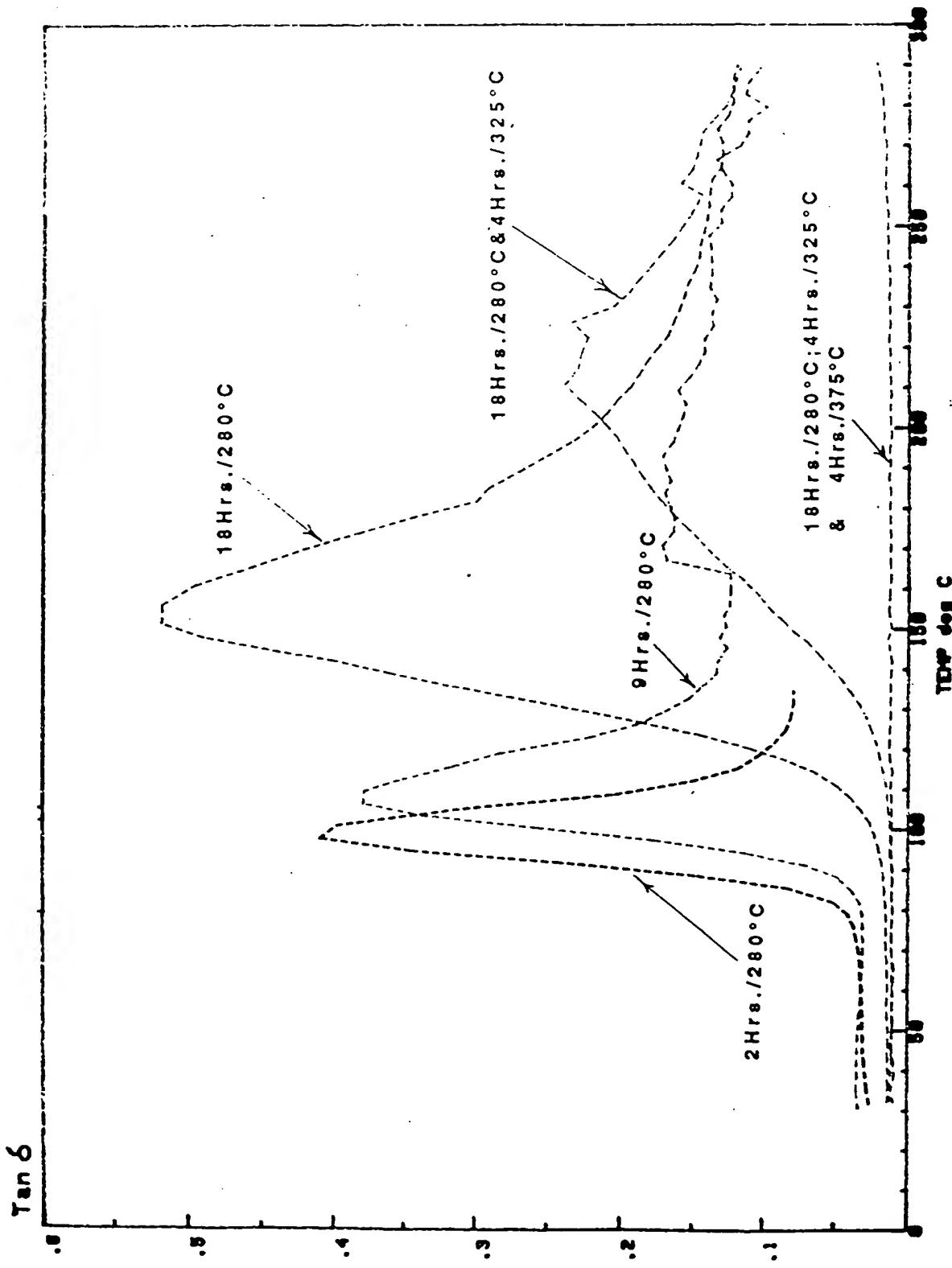
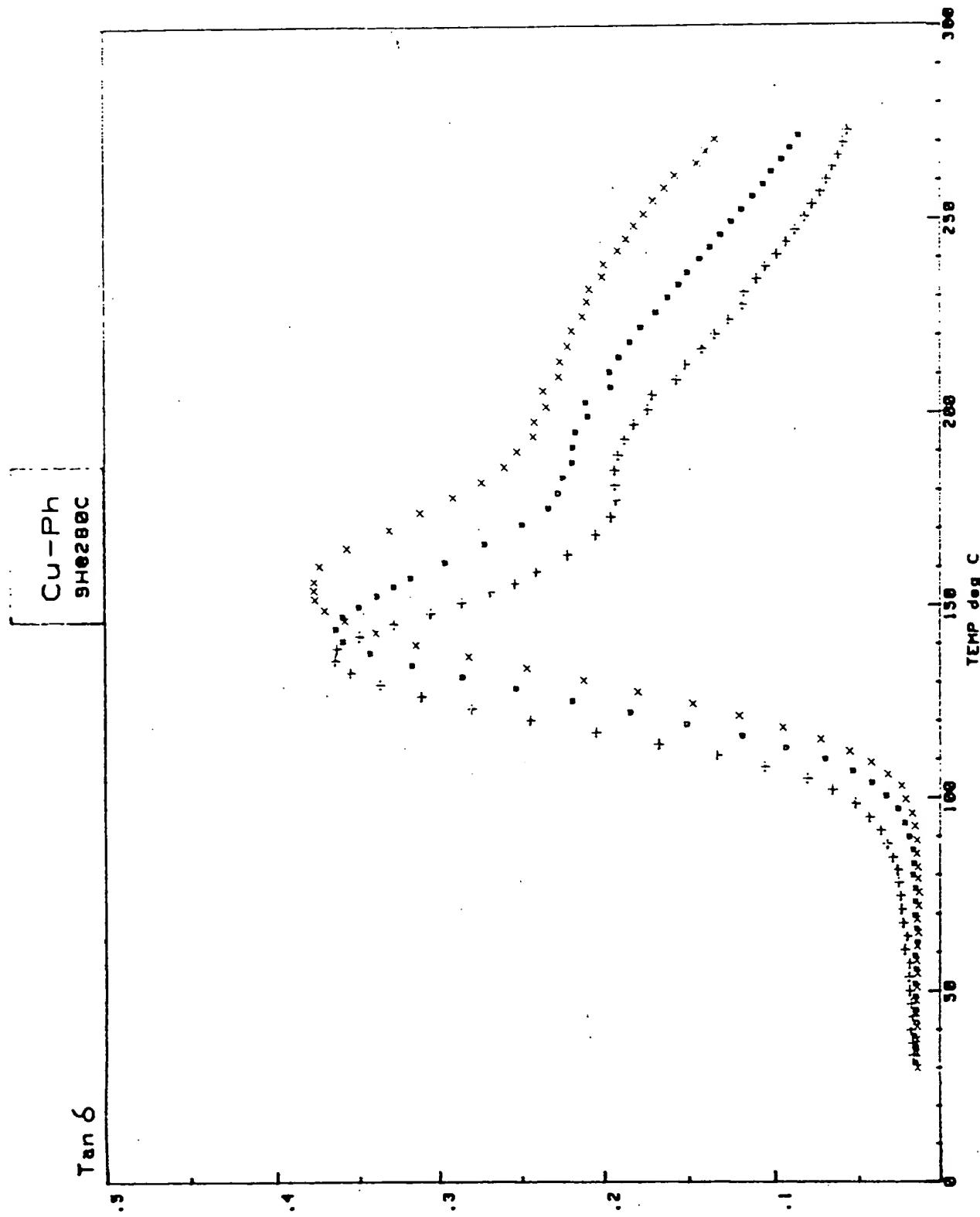


WC 71897



0.1.1. & 10
1. 2. 3. 4.
2 degc/min
T_{peak} = 2.610
DSC, CMT
4. INSTRUMENTS

Fig. 2



0 8 8 3 4 5 8 9 2 " 0 4 2 8 9 2

Cu-Ph
16H0280C:4H0325C

Tan δ

.28

.24

.20

.16

.12

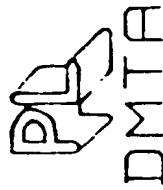
.08

.04

.00

TEMP deg C

300
250
200
150
100
50
0



0.1, 1 & 10
STRAIN =
2 degC/min
LOCK = 2.682
DUAL CANT
21x9.79x7mm

Fig. 3

F10.4

368

250

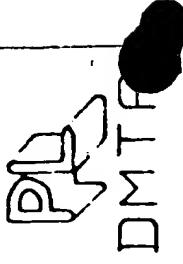
TENSILE C

50

0

DUAL
CPORT
LOCk-
2.503
2 degC/min
STABIN
0.1.4.10

+
-
x
x
10 Hz



Cu-Ph

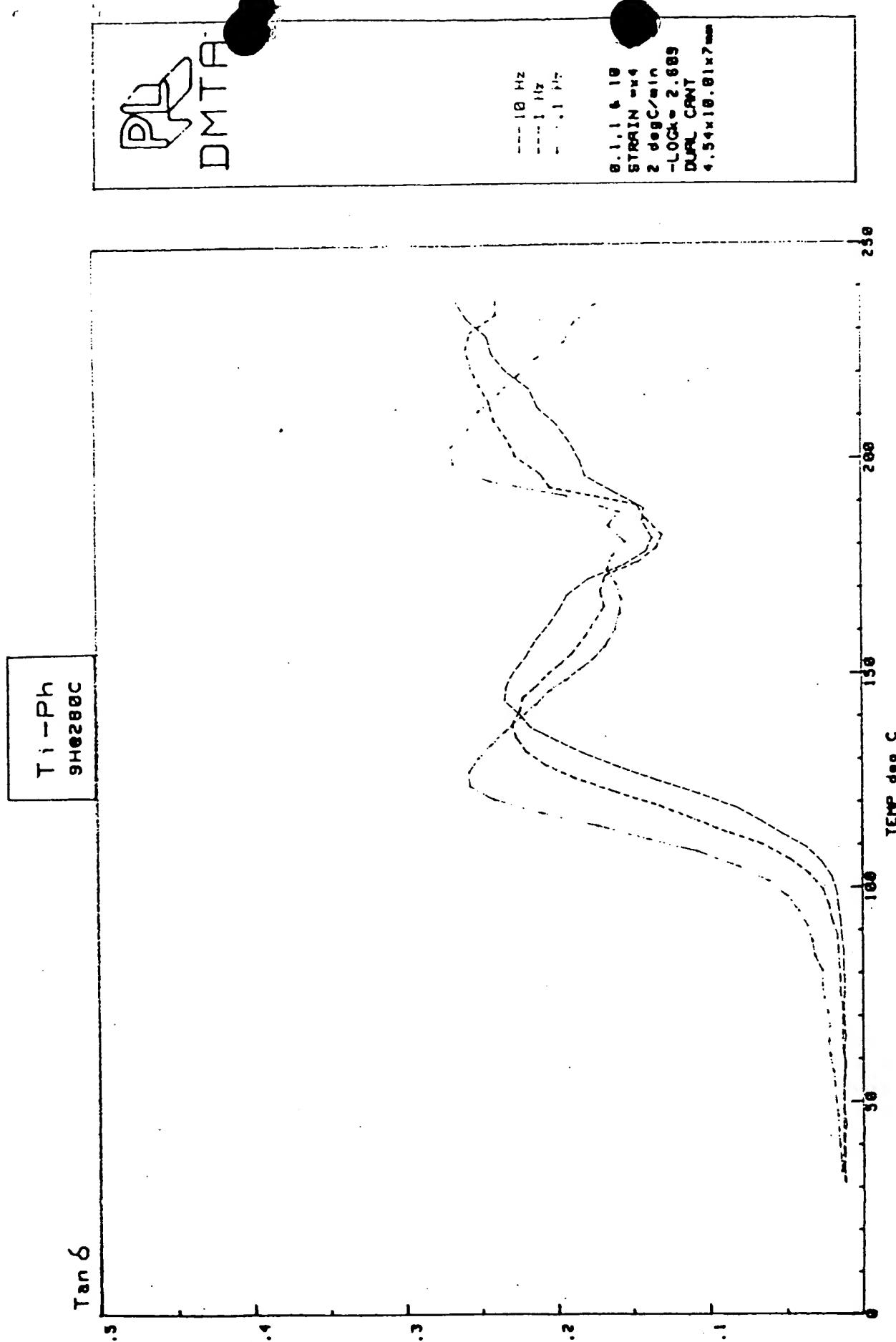
16H02880C:4H0325C:4H0375C

Tan δ

0.2. 0.4. 0.6. 0.8. 1.0. 1.2. 1.4. 1.6. 1.8. 2.0.

0 2 4 6 8 10 " 12 14 16 18 20

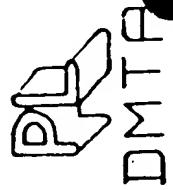
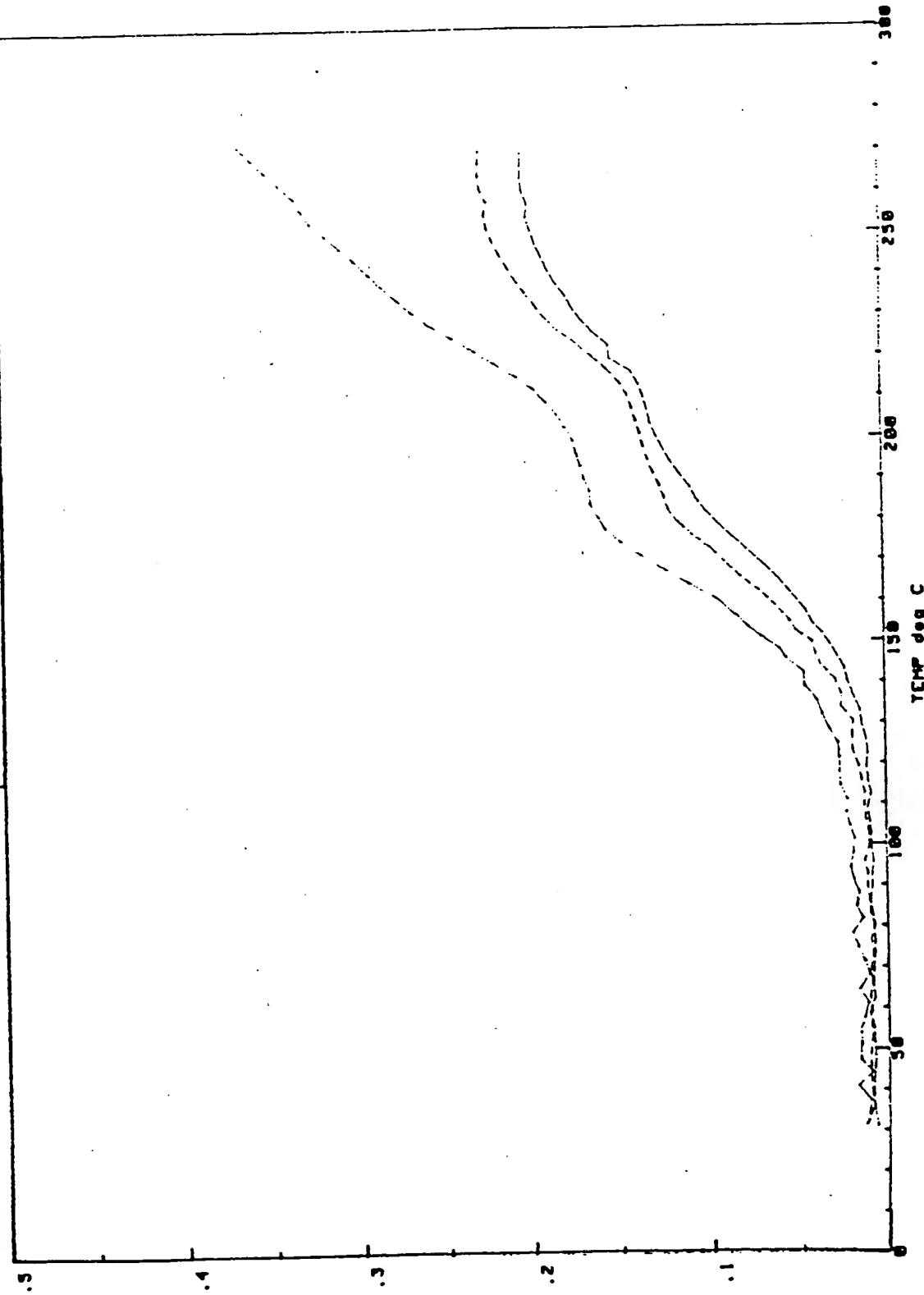
DATA SHEET FOR DSC



20080901000000000000

Ph/Ti Composite
18H0288C14H0325C

Tan δ



DMTA

10 Hz
1 Hz
0.1 Hz
8.1.1 & 19
STRAIN = 4
2 degC/min
-LOCK = 2.615
DUAL CANT
4.51x10⁻⁷ mm

Fig. 6

08345397 "042692"

Ph/Ti Composite
18H0280C; 4H0325C; 4H0375C

Tan δ

3

2

1

0

TEMP deg C

130 160 190 220

10 Hz
1 Hz
0.1 Hz
0.01 Hz

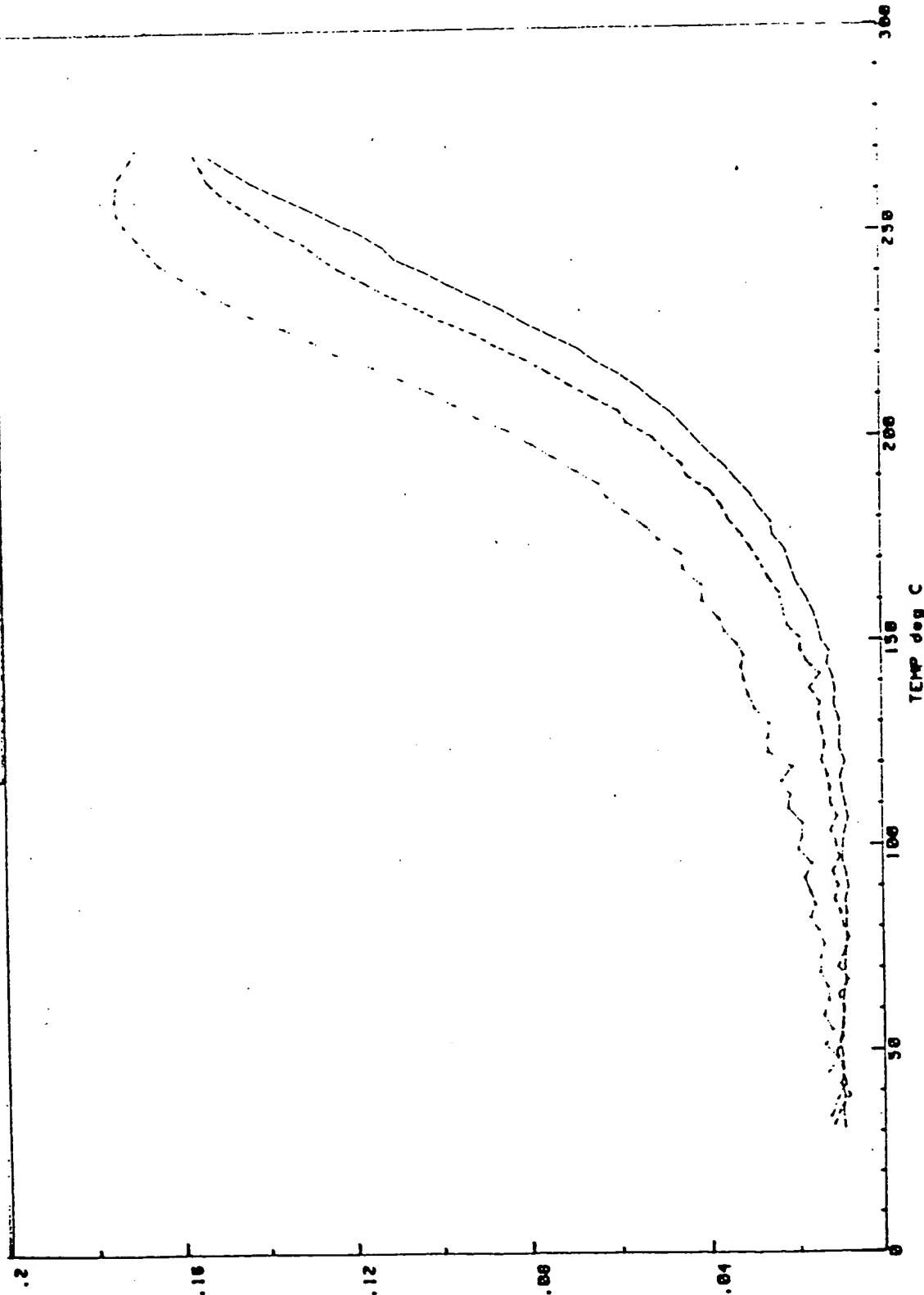
0.1.1.1.18
STRAIN =
2 degC/min
-LOC = 2.611
DUTY CYCLE
4.93x10⁻⁷ sec

Fig. 7

200824000000000000

Ph/Zn Composite
18Hz 280C 14Hz 325C

Tan δ



0.1, 1, 4, 18
2 degC/min
-LOCK- 2.61s
STRAIN 0.001
DUR. CRNT
4.51x10⁻⁴mm
1 Hz
10 Hz

Fig. 8

0 10 20 30 40 50 60 70 " 0 10 20 30 40

Ph/Zn Composite
18H02800C; 4H0325C; 1H0375C

Tan δ

2.

11.

12.

13.

14.

0

50

100

150

200

250

300

TGHP deg C

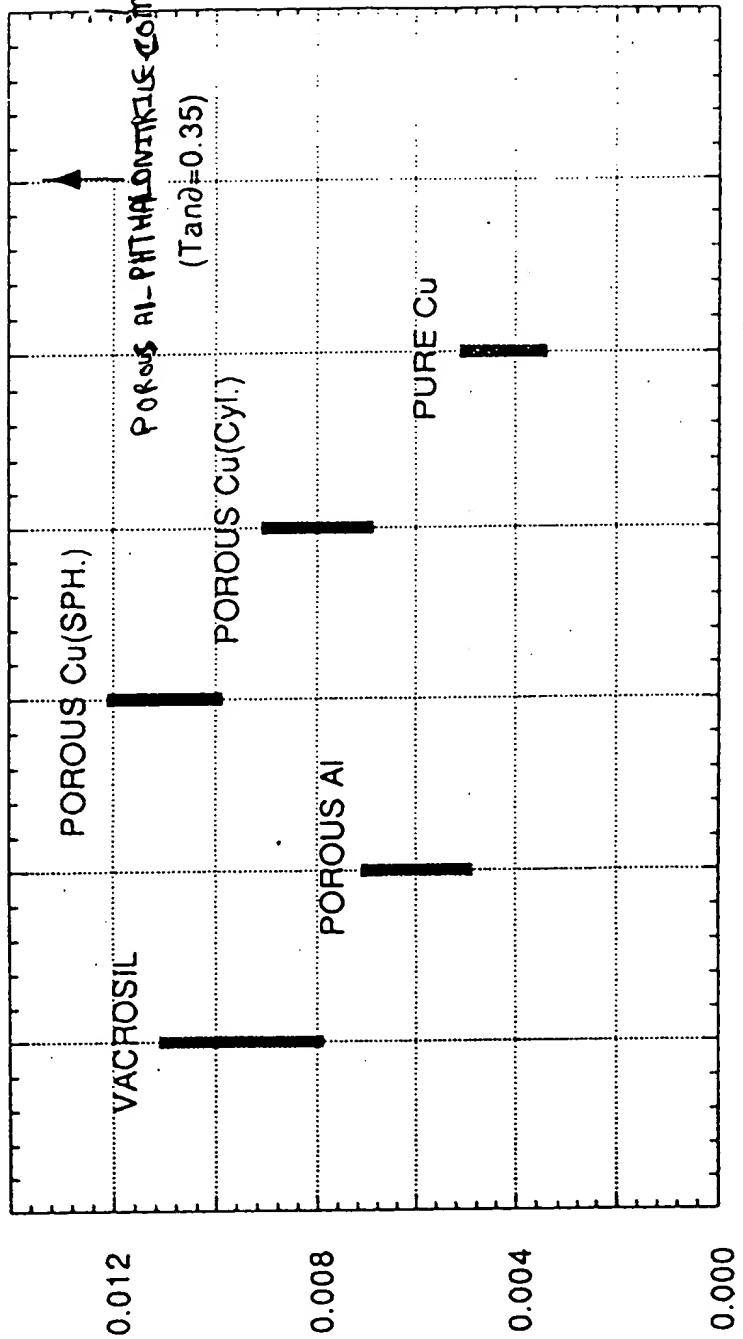
10 Hz
1 Hz
.1 Hz
0.1.1.6.10
STRAIN = 4
2 degC/min
-LOCK = 2.615
DUAL CRNT
4.51x10x7 mm

Fig 9

0.000 0.004 0.008 0.012

 $\tan\delta$

Tang Over Frequency Range of 0.1 to 10 Hz



MATERIALS

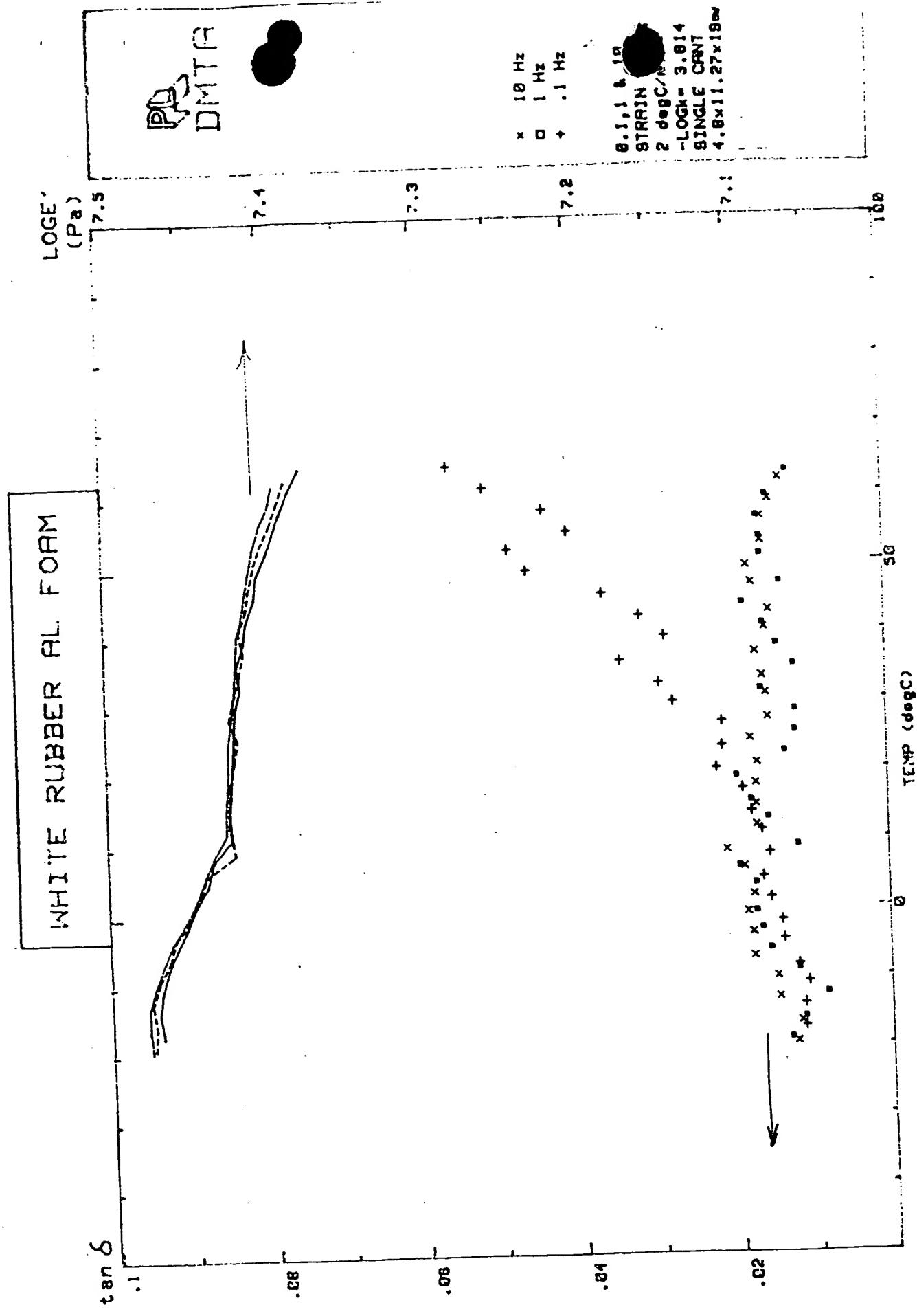
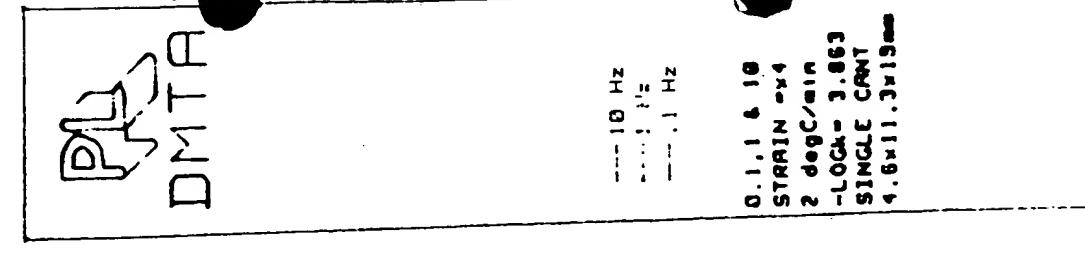
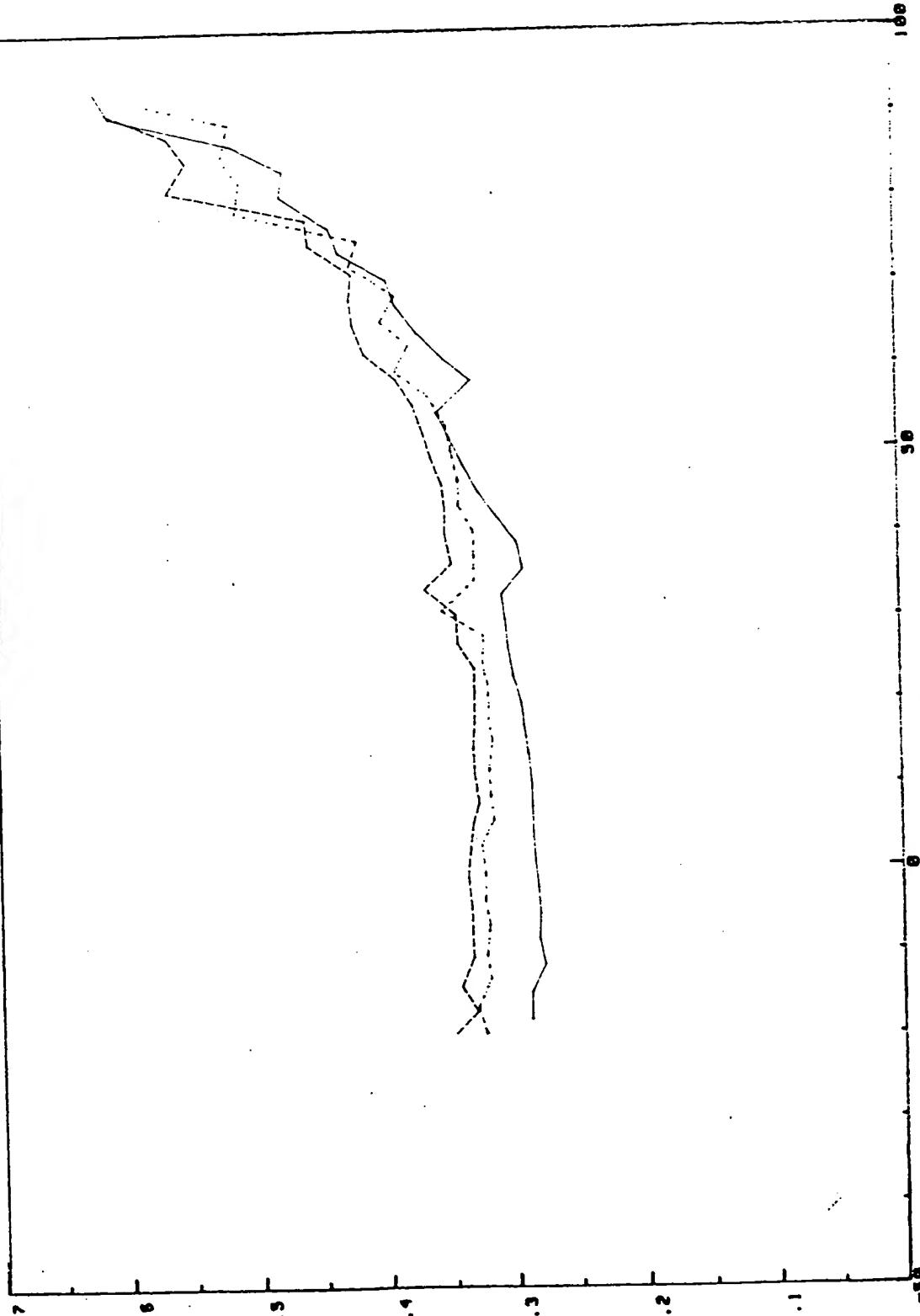


Fig. 11

2/16/88 2:47:00 PM 2/16/88 2:47:00

RED RUBBER AL FORM

Tan δ



TEMP deg C

Fig. 12

DMTA

10 Hz
1 Hz
0.1 Hz
0.1 10 Hz
STRAIN = 4
2 deg C/min
LOG = 3.978
SINGLE CRNT
 $4.31 \times 10^{-3} \text{ N/m}^2$

EPOXY AL FORM

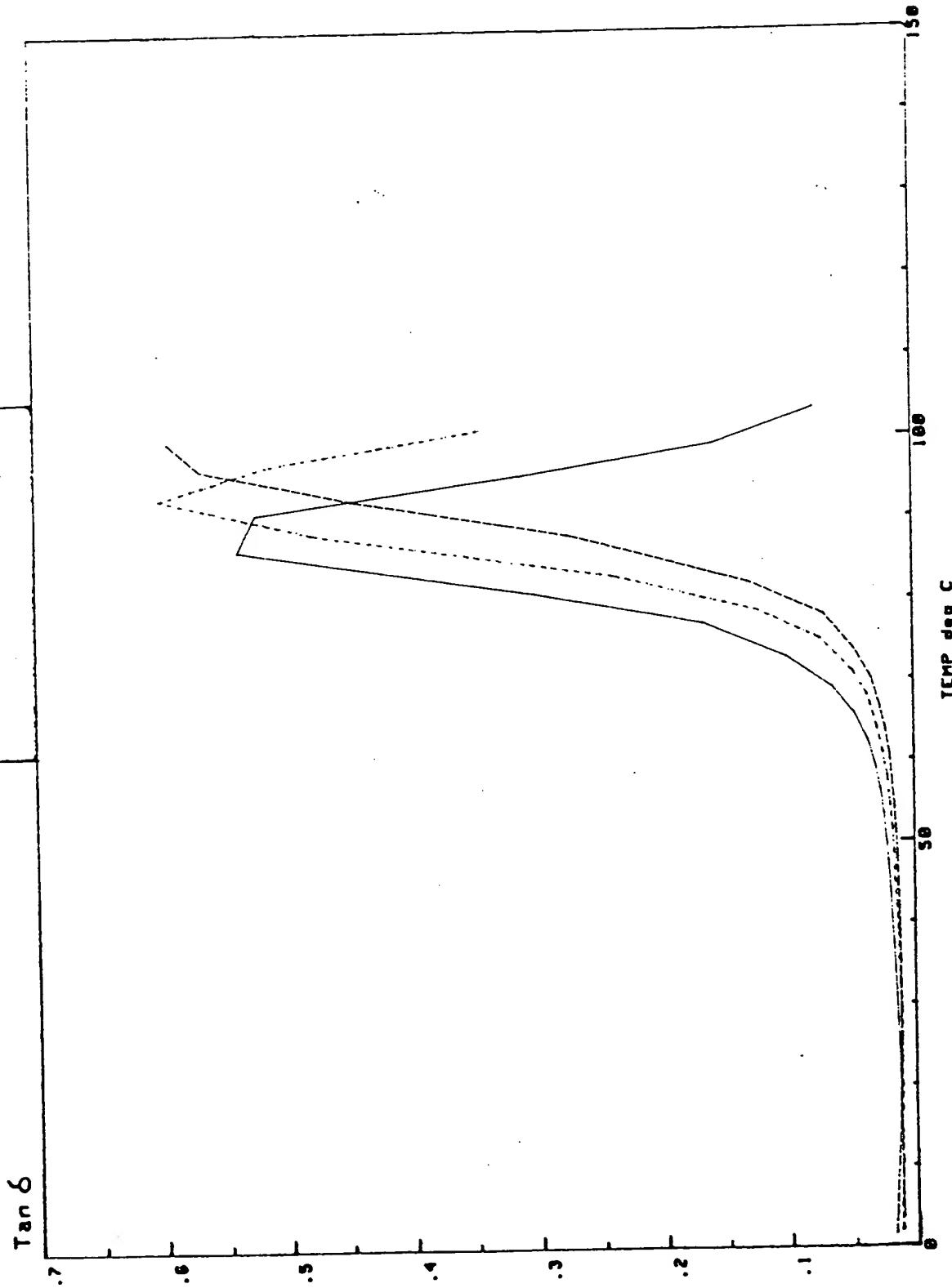


Fig. 13

2/16/93 2:41:00 PM 2/16/93 2:41:00

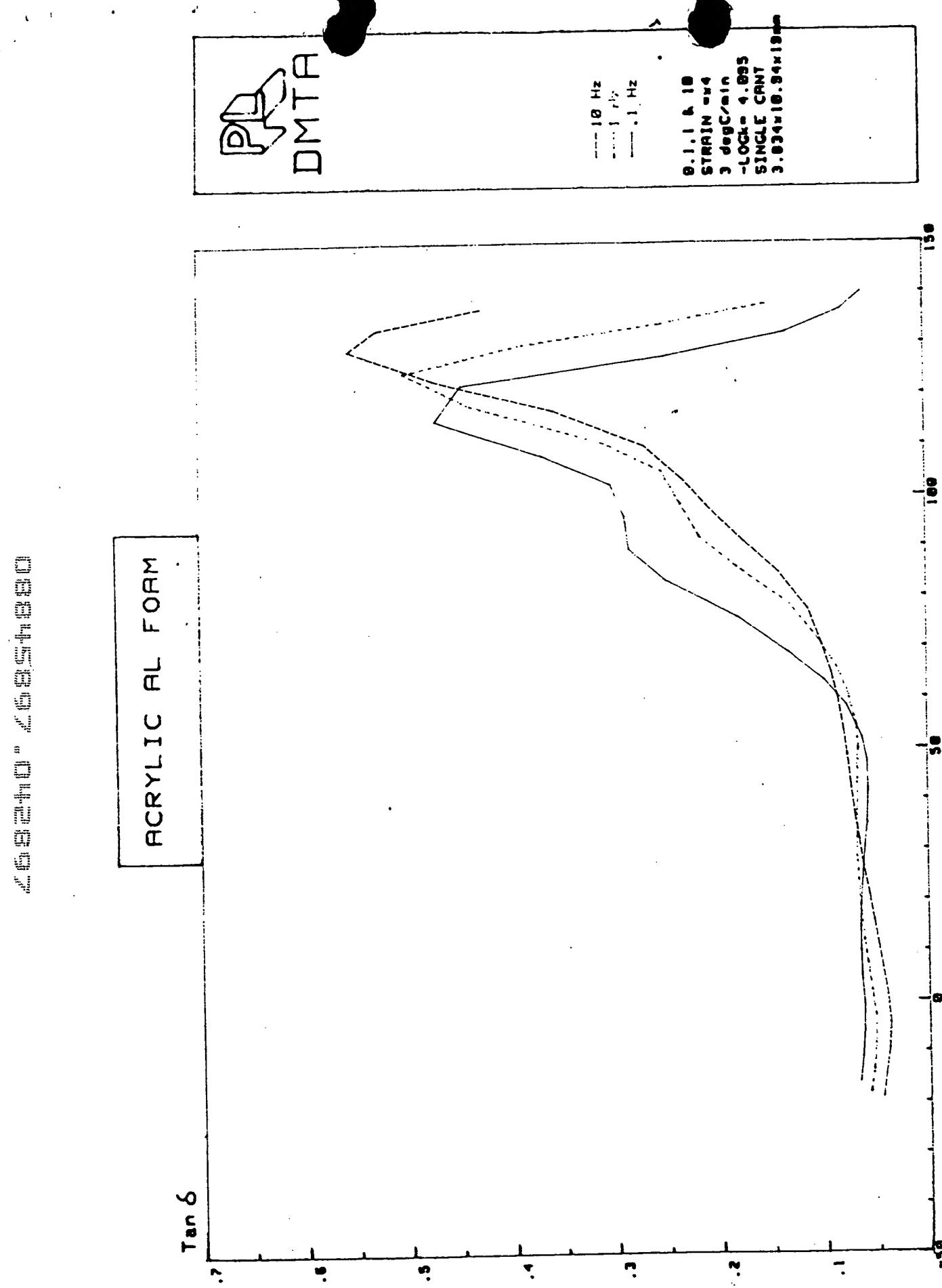
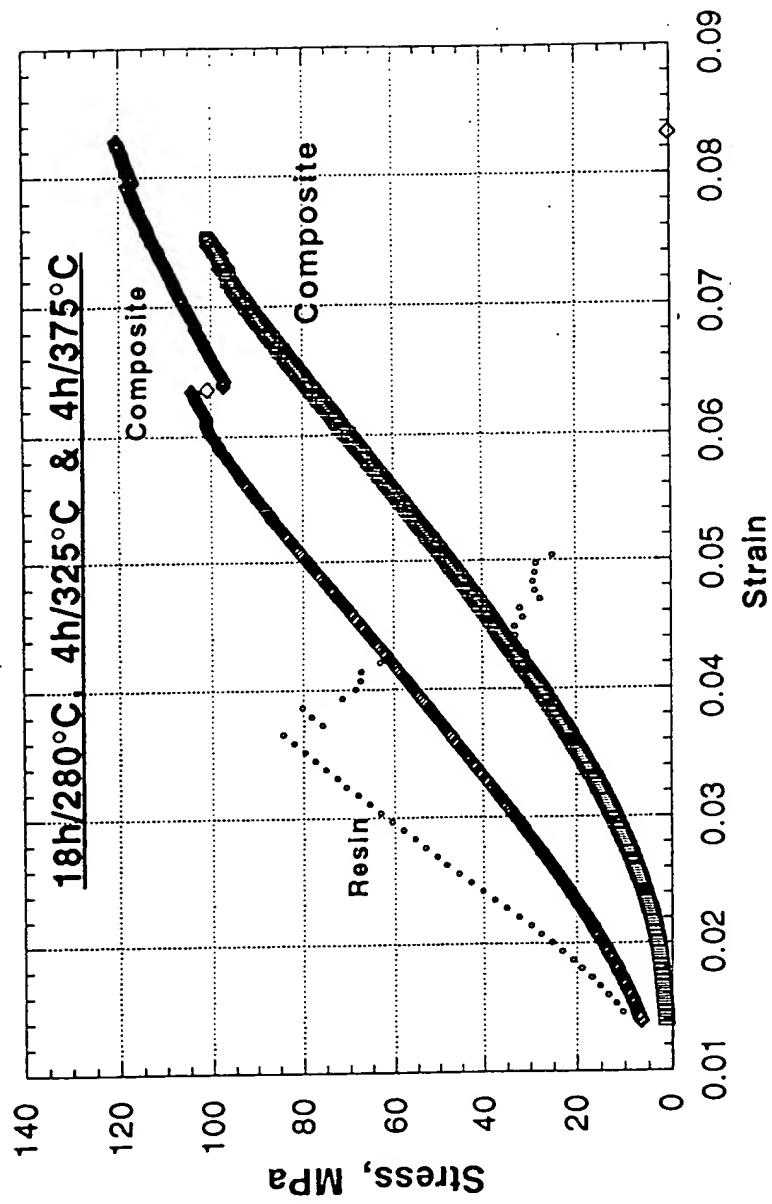


Fig. 14

0 0 0 0 0 0 0 0 0 0 0 0

Fig. 15



STRESS VS STRAIN

STRESS (PSI)

10000 8000 6000 4000 2000 0

.05

.10 .12 .14 .16

STRAIN

80

60

40

20

0

14000

10500

7000

3500

0

STRESS (PSI)

ALUMINUM FOAM IN ACRYLIC MATRIX

ALUMINUM FOAM

116

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